

# GROWFORCE<sup>®</sup> Zn/Mo Plus

NUTRITION

Natural kelp extract of auxins and cytokinins fortified EDTA, chelated zinc and molybdenum for accelerating root development and improving plant health.

**3% Zn, 2% Molybdenum, 26% Liquid Kelp Extract**

## Benefits of Growforce Zn/Mo Plus

- Promotes larger and more vigorous root systems that lead to greater plant growth
- The zinc in Growforce Zn/Mo Plus also promotes the production of growth hormones (auxins) and acts synergistically with the seaweed extract
- Chelated zinc source means all the zinc is plant available and does not get locked up in the soil
- Ideal for stimulating early growth in all crops
- As soil calcium can only be taken up by new root tips, Growforce Zn/Mo Plus new root growth facilitating uptake of calcium
- Natural plant hormones encourage strong cell development, slow senescence and help crops recover from stress situations
- Improved plant health enhances resistance to nematodes and other pest and fungal diseases
- Completely plant available
- Can be applied with a wide range of other agricultural chemicals, reducing the number of spray applications needed.

## WHAT IS IN Growforce Zn/Mo Plus?

Growforce Zn/Mo Plus contains a natural extract of the highest auxin-containing kelp, called Kelpak, which is derived from *Ecklonia maxima*. *Ecklonia maxima*, is the fastest growing kelp in the world. Kelpak differs in its production process to most other kelp products in the marketplace due to the “cold cell burst method” of extraction from the *Ecklonia maxima* and the growth of the kelp is a managed system as opposed to “storm-cast” harvesting from beaches. Each batch of Kelpak has consistent levels of naturally occurring auxins and cytokinins due to each harvest being done at the same growth stage and from only one species of kelp. The addition of zinc works synergistically with the seaweed extract in production of auxin-based plant growth hormones. When Growforce Zn/Mo Plus is used as a seed dressing or in the early growth stages of a crop, the supplementation of natural growth hormones helps the plant produce extra adventitious roots, thus speeding up seedling establishment and growth rate. Additional molybdenum helps the plant better utilize supplied nitrogen.

## THE ROLE OF MOLYBDENUM

Molybdenum is essential for the chemical changes involved with nitrogen assimilation i.e., the conversion of nitrate to ammonium inside the plant. It is therefore important for chlorophyll and enzyme formation. It is also important in cell division, photosynthesis, sugar and starch formation, energy transfer and movement of carbohydrates.

## THE ROLE OF ZINC

Zinc forms part of an enzyme that produces carbon dioxide and maintains CO<sub>2</sub> levels for photosynthesis. Zinc also plays a beneficial role in hormone production.

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## Product Characteristics

Specific Gravity: 1.16 Color: Green

ANALYSIS	WV%
Liquid Kelp Extract	25.8
Molybdenum (Mo)	2.0
Zinc (Zn)	3.0

## Directions for Use

Agitate contents well before dilution. Suitable for application by:

 <b>Foliar Spray</b>	 <b>Fertigation</b>	 <b>Pre Plant Dip</b>	 <b>Soil Drench</b>	 <b>Water Injection</b>
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CROP	RATE/A	MIN DILUTION	COMMENTS
<b>CEREALS / LEGUMES</b> - Foliar - Seed dressing	0.5-1.7 pints	1 : 50	Apply once at 3 - 5 leaf stage or in early growth stages and repeat four to five weeks later. Use in combination with Growforce Zinc.
<b>COTTON</b> - Foliar (aerial)	0.9-1.7 pints	1 : 20	Apply 21 days after planting. Repeat at first square.
<b>CUCURBITS</b> - Foliar - Planting (dip)	0.9-1.7 pints	1 : 300 1 : 50	Apply three to four weeks post transplanting. As a seedling dip or at transplanting, dilute 0.79 gal. in 26.4 - 52.8 gal. water and soak around plant at or just after transplanting.
<b>CUT FLOWERS</b> - Foliar - Planting	0.03-0.1 fl. oz./1 quart water 1.7-3.4 pints		Foliar apply at three to four week intervals during growing season. Repeat after each cut and also prior to bud formation. Soil apply at emergence.
<b>FRUIT TREES</b> - Foliar - Transplanting - Fertigation	0.9-2.6 pints 0.03-0.07 fl. oz./plant pints 1.7-3.4 pints	1 : 300 1 : 300	Apply at four to five week intervals during active growing season. Dilute in 0.26 - 0.53 gal. water, soak soil around plant at transplanting or in early spring. Fertigate at bud swell.
<b>ORNAMENTALS</b> - Foliar - Soil	0.03-0.1 fl. oz./1 quart water 1.7-2.6 pints		Foliar apply at five to six week intervals during the active growing season. Soil apply and fertigate plant at transplanting or in spring.
<b>PASTURES</b>	0.9-2.6 pints	1 : 50	Apply from bulb formation to harvest in onions and from hook. Apply at initial growth and repeat two to three weeks post silage cut or last grazing. Do not introduce stock to field for one week post application.
<b>POTATOES</b> - Foliar - In Furrow	0.9-1.7 pints 1.7-3.4 pints	1 : 300 1 : 30	Apply 28 days after full emergence, then 14 days later. Apply no later than tuber set. Apply with compatible pesticides at planting.
<b>STRAWBERRIES</b> - Foliar - Planting (dip)	0.9-1.7 pints 0.3 mL/plant	1 : 300 1 : 30	Apply 21 days after planting. Repeat every two picks. Dip transplants (bottom third, including roots) immediately before planting.
<b>SUGAR CANE</b> - Billet Spray - Foliar	1.7-2.6 pints 0.9-1.7 pints	1 : 300 1 : 50	Apply maximum of 1.06 gal. / season. Apply with fungicide treatment at planting. As foliar application prior to out of hand.
<b>TURF</b>	1 quart / 1100 ft <sup>2</sup>	1 : 300	Apply at planting. Repeat monthly as required.
<b>VEGETABLES / TEA / COFFEE</b> - Foliar - Transplanting	0.9-1.7 pints 0.3 mL/plant	1 : 300 1 : 30	Foliar apply at 3-leaf stage to stimulate root growth and then at three to four week intervals during active growing season. Dip transplants (bottom third, including roots) immediately before planting or soak around plant at transplanting.
<b>VINES</b> New plantings: Root dip of transplants - Soil drench Established vines - Foliar -Fertigation	0.3 mL/plant 0.9-2.6 pints 1.7-2.6 pints 2.6-3.4 pints	1 : 30 1 : 60 1 : 100	Dip transplants (bottom third, including roots) immediately before transplanting. Soak soil with 17 fl. oz. of diluted product around newly planted plants or at bud swell. Apply at full bloom and repeat after 21 days. Apply through drippers at bud swell and repeat at flowering. Apply as foliar or fertigation only.

Minimum Dilution: A dilution of 1 : 100 means 1 part product : 100 parts water  
In hot weather, use the higher dilution rate where applicable  
pH level of tank mix should be slightly acidic